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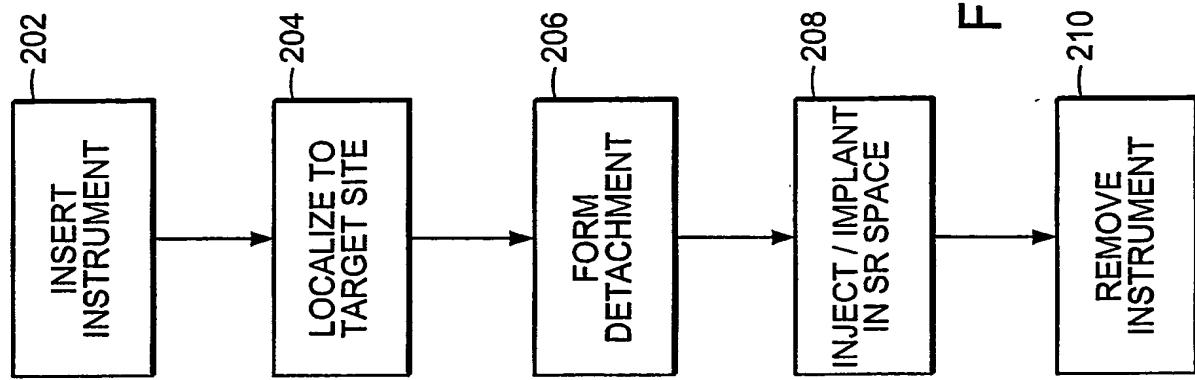


FIG. 2

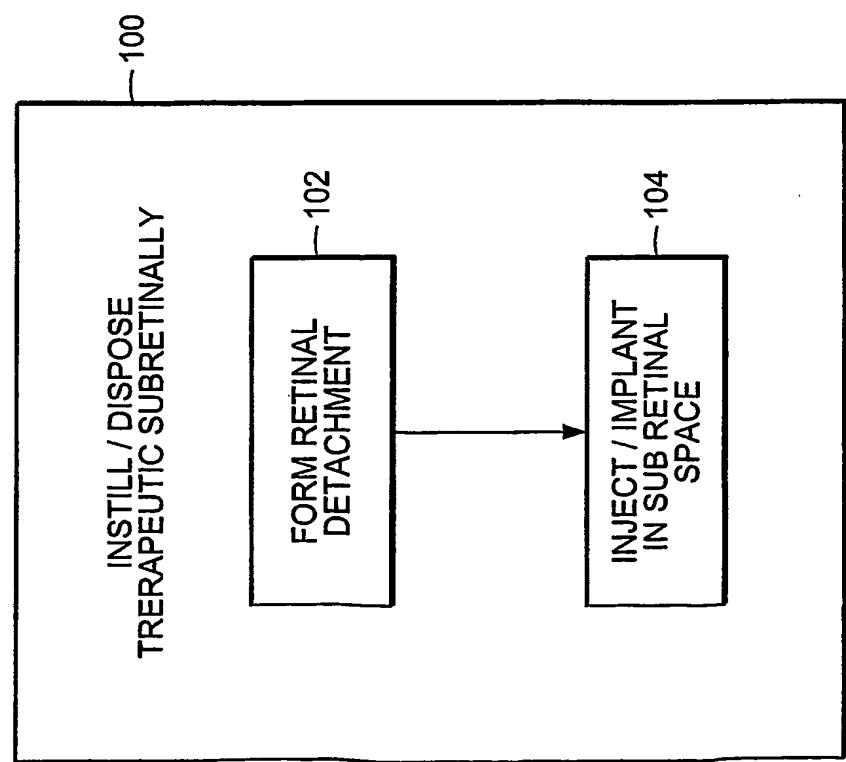


FIG. 1

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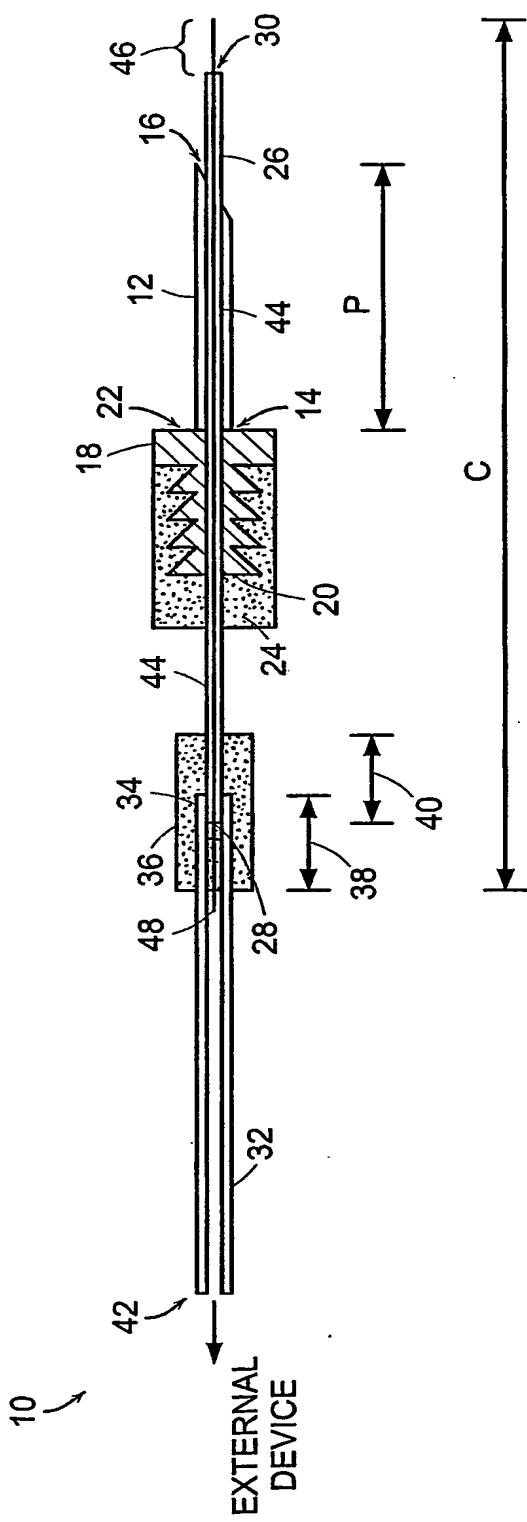


FIG. 3A

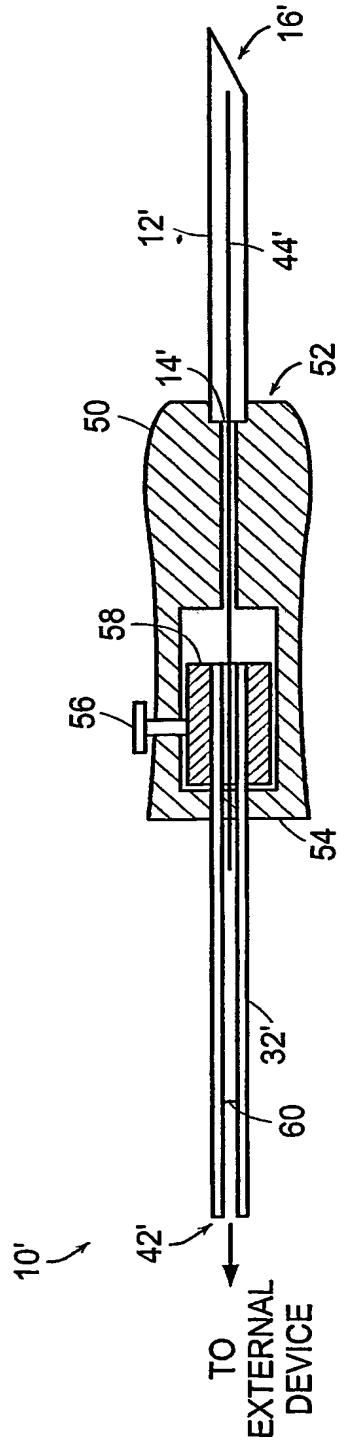
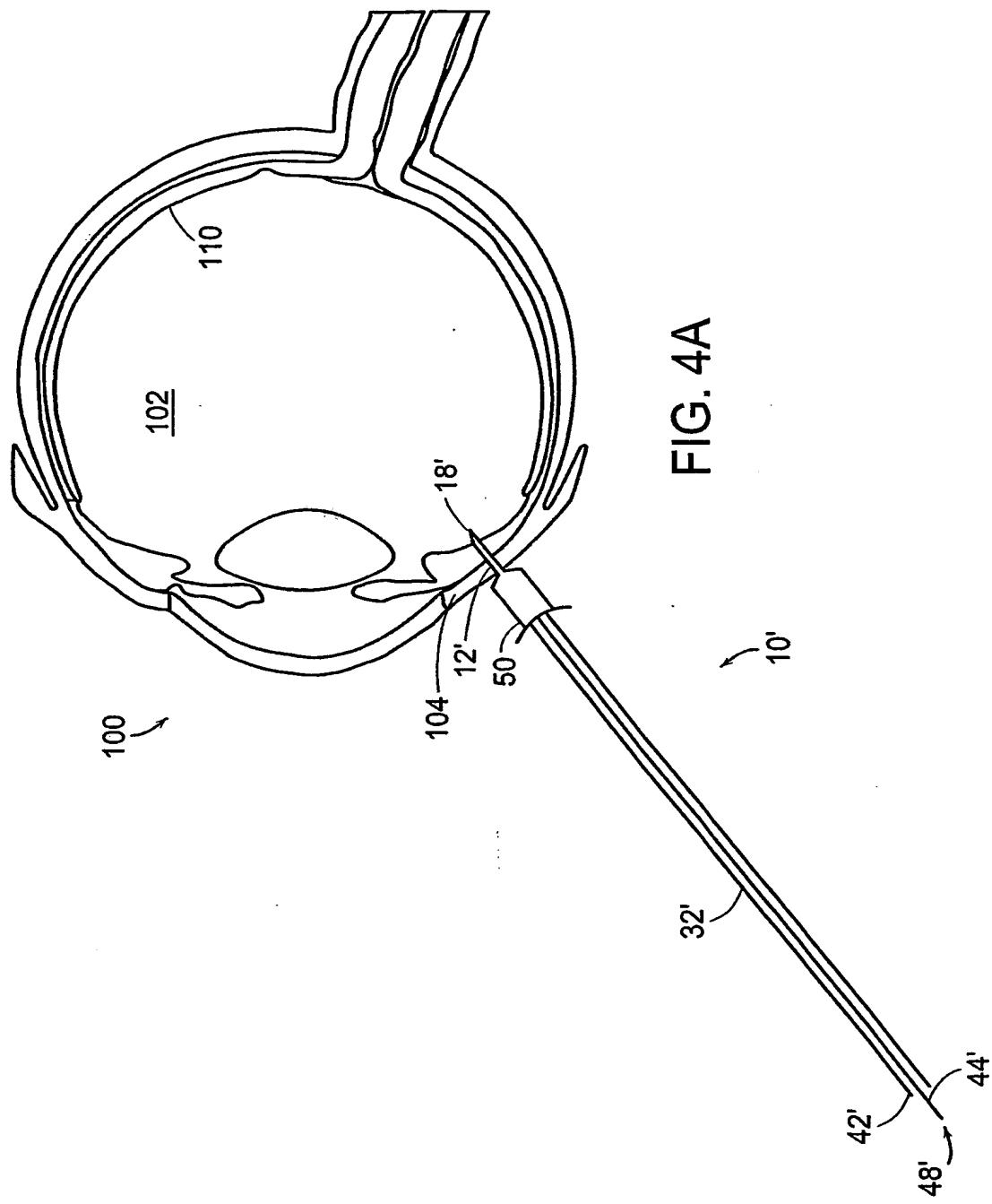


FIG. 3B

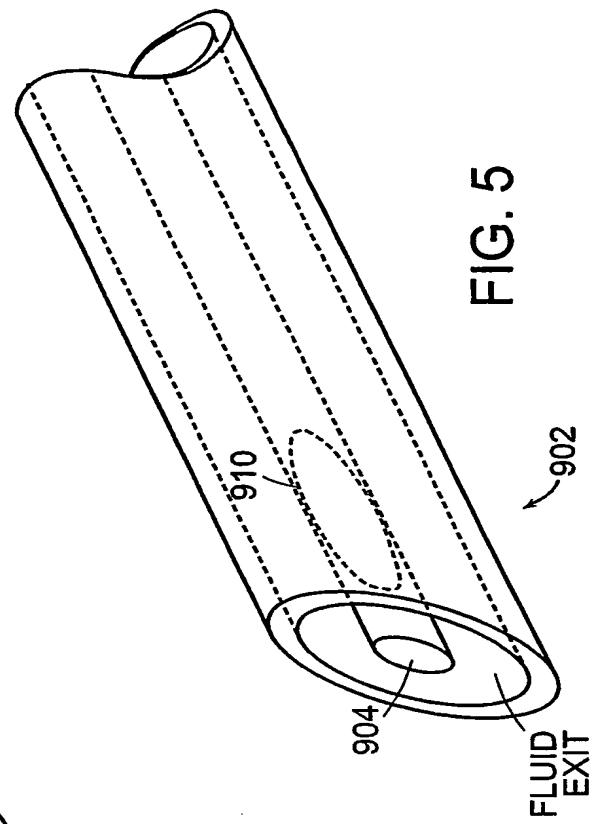
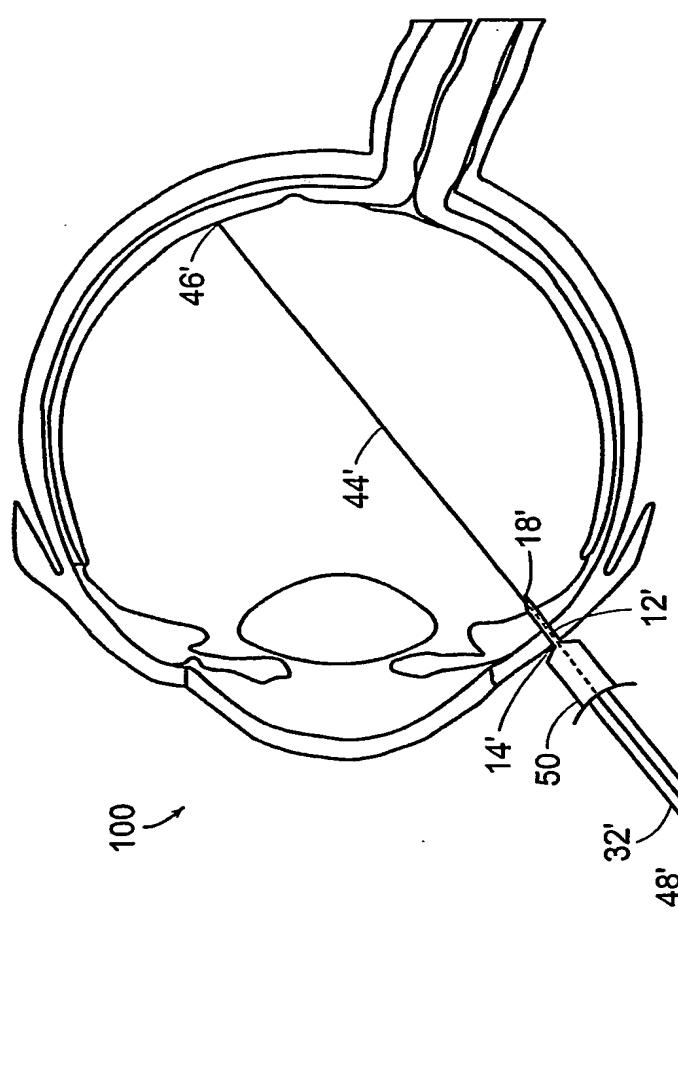
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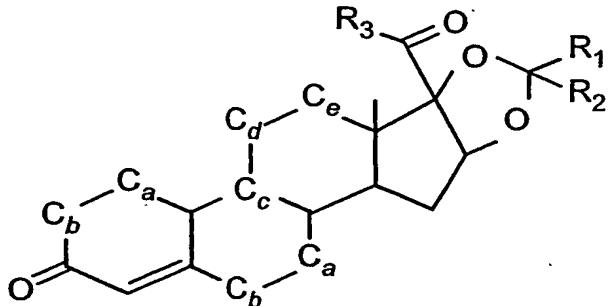
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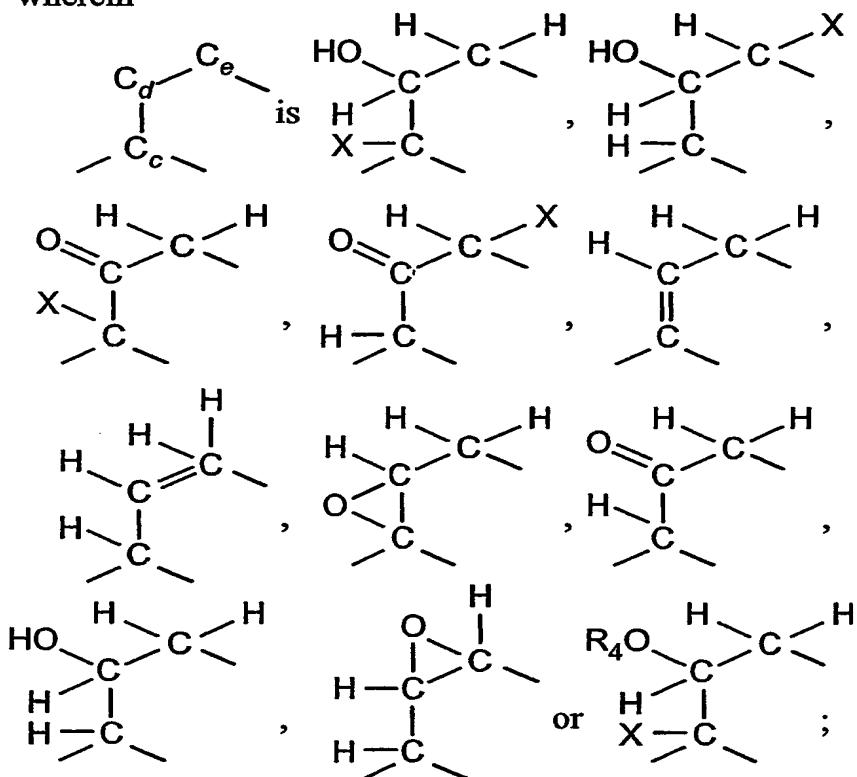
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11-substituted 16 α , 17 α -substituted methylenedioxy steroids of the formula



wherein



R_1 and R_2 are hydrogen or alkyl;

$-C_a-C_b-$ is $-CH_2-CH_2-$,

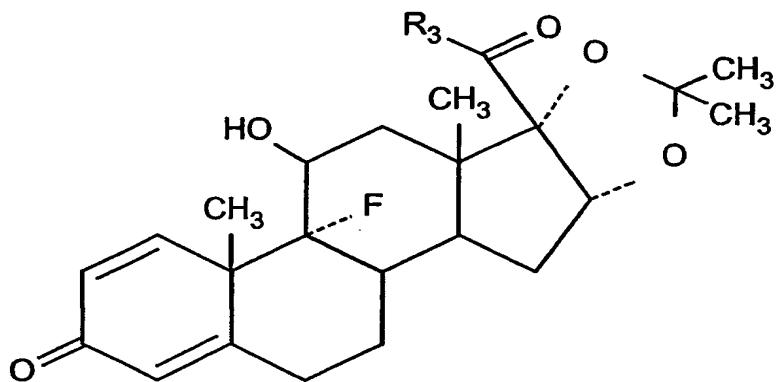
$$-\text{CH}=\text{CH}-, \quad -\text{CH}_2-\underset{\text{CH}_3}{\text{CH}}-\text{ or } -\text{CH}=\underset{\text{CH}_3}{\text{C}}-$$

R3 is methyl, hydroxymethyl or alkylcarbonyloxymethyl, methylaminoalkylenecarbonyloxymethyl, or phenylamino alkylidenecarbonyloxymethyl; R4 is alkanoyl; and X is halogen.

FIG. 6A

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compounds of the formula



wherein R₃ is hydroxymethyl,
phenylcarbonylaminoisopropylcarbonyloxymethyl,
or 2,2-dimethylpropylcarbonyloxymethyl.

FIG. 6B

cystalline 9-fluoro-11, 21-dihydroxy-16,
17-[1-methylethyldinebis(oxy)]pregna-1,
4-diene-3, 20-dione:

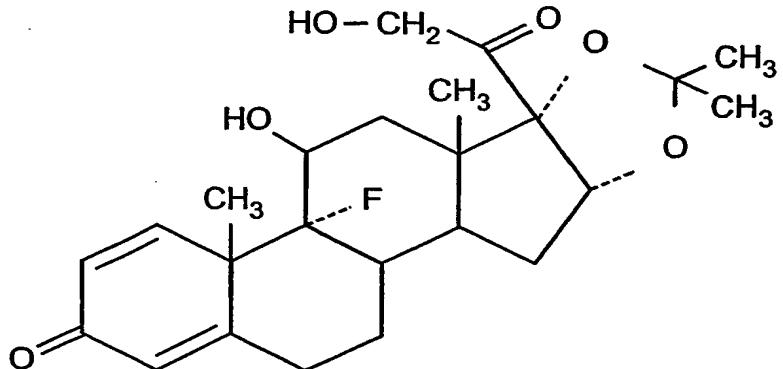


FIG. 6C

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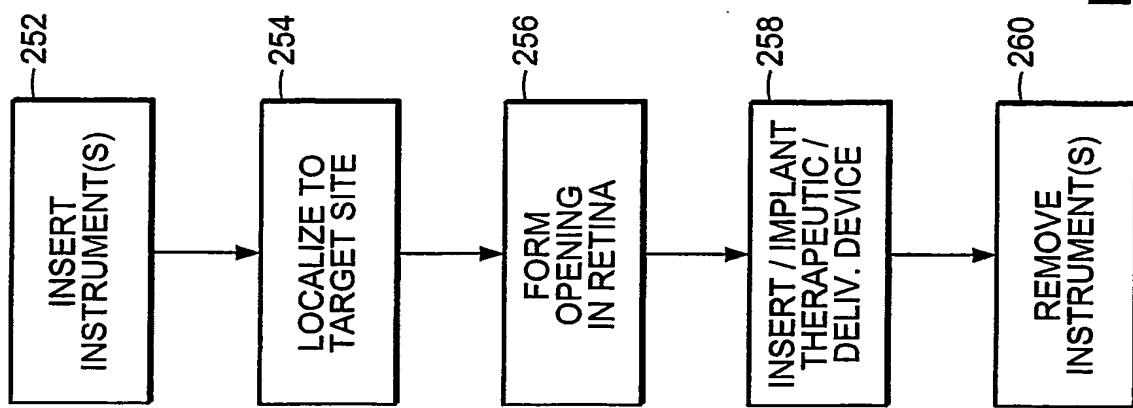


FIG. 8

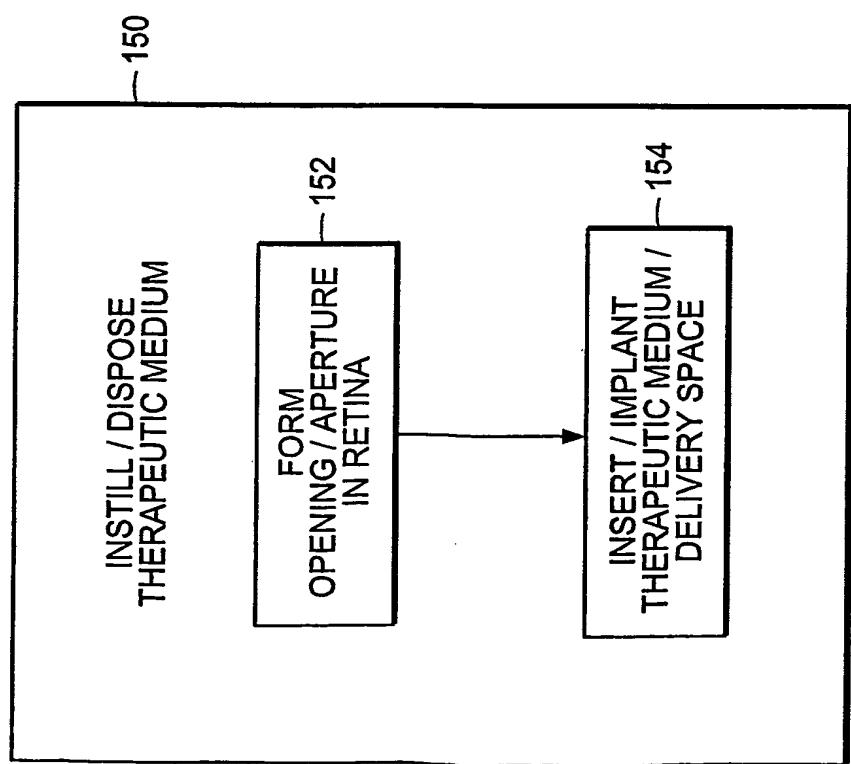


FIG. 7